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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,474	02/26/2004	Hideyuki Koguchi	Q78008	9310
23373 SUGHRUE MI	7590 08/14/2007 ON PLLC		EXAM	INER
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			TENTONI, LEO B	
		•	ART UNIT	PAPER NUMBER
			1732	
	•		MAIL DATE	DELIVERY MODE
			08/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/786,474	KOGUCHI, HIDEYUKI			
		Examiner	Art Unit			
		Leo B. Tentoni	1732			
	The MAILING DATE of this communication app					
Period fo	• •	/ IO OFT TO EVOIDE • I	MACNITURES OF THEFTY (20) PAVO			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF A STATE O	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MC cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status	•					
1)⊠	Responsive to communication(s) filed on 14 M	ay 2007.				
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.					
3)						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	Claim(s) 1-30 is/are pending in the application.					
	4a) Of the above claim(s) 21-30 is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
· -	Claim(s) <u>1-20</u> is/are rejected.					
	Claim(s) is/are objected to.	r clastian requirement				
ا_ا(ه	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
,	The specification is objected to by the Examine					
10)⊠	The drawing(s) filed on 26 February 2004 is/are					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority	under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
·	See the attached detailed office determined a fist	or the cortined copies in				
Attachmei		4) Interview	v Summary (PTO-413)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	o(s)/Mail Date			
3) 🔯 Info	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>08192004</u> .	5) Notice o 6) Other: _	f Informal Patent Application			

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DETAILED ACTION

Election/Restrictions

- Applicant's election without traverse of Group I, claims 1 in the reply filed on 14 May 2007 is acknowledged.
- 2. Claims 21-30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 14 May 2007.

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Yagi (JP 11-263004 A).

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Yagi (see the entire document, in particular, the English-language translation, especially paragraph [0033]) teaches a three-dimensional image forming process as set forth in the instant claims. Yagi does not explicitly teach the aspects regarding the step of acquiring first height information; however, these aspects are inherent in Yagi principally because Yagi teaches controlling the amount of material added to the object (during the lamination stage) by using generally known "gradation technology", which involves adjusting the degree of irregularities (e.g., surface features of the object, due to height differences or undulations) in the object and adjusting the amount of material added to the object.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yaqi (JP 11-263004 A) in combination with

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Zhang et al (U.S. Patent Application Publication 2002/0113331 Al).

Yagi (see the entire document, in particular, the Englishlanguage translation, especially paragraph [0033]) teaches a three-dimensional image forming process as set forth in the instant claims, except that Yaqi does not explicitly teach the aspects regarding the step of acquiring first height information (Yagi teaches controlling the amount of material added to the object (during the lamination stage) by using generally known "gradation technology", which involves adjusting the degree of irregularities (e.g., surface features of the object, due to height differences or undulations) in the object and adjusting the amount of material added to the object), which is taught by Zhang et al (see the entire document, in particular, paragraph [0073] wherein Zhang et al teaches using sensor means to periodically measure the dimensions of the object (such dimensions include height information and undulations) and to use the data during object manufacturing by a three-dimensional image forming process) and such would have been obvious to one of ordinary skill in the art at the time the invention was made in the process of Yagi in view of Zhang et al principally in order to ensure more accurate dimensions in the final object.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Leo B Elenton

Leo B. Tentoni Primary Examiner Art Unit 1732

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